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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,255	07/22/2003	Marvin L. Sojka	TEL-047	7353

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EXAMINER	
CHOU, ALBERT T	
ART UNIT	PAPER NUMBER
2616	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/624,255	SOJKA ET AL.	
	Examiner	Art Unit	
	Albert T. Chou	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *22 July 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-24* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-3,7-9,13-15 and 19-21* is/are rejected.

7)☒ Claim(s) *4-6,10-12,16-18 and 22-24* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *22 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claims 13-24 are objected to because of the following informalities:

Claim 13 recites "*A method of providing a communication interface between a telephone line coupled between a control unit an a public switched telephone network (PSTN) service provider central office and a logical channel between the control unit and a real time communication device over a packet switched local area network, the method comprising:*"

The preamble of claim 13 comprises multiple "*between*" and "*and*" (some appear to be typographical errors) and, therefore, fails to clearly point out which entity or entities are involved in the claimed "*method of providing a communication interface*".

Claims 14-18 depend from claim 13, and, therefore, are objected on the same basis of objection.

Claim 19 recites "*A method of providing a communication interface between at least two telephone lines coupled between a control unit an a public switched telephone network (PSTN) service provider central office and a logical channel between the control unit and a real time communication device over a packet switched local area network, the method comprising:*"

The preamble of claim 19 comprises multiple "*between*" and "*and*" (some appear to be typographical errors) and, therefore, fails to clearly point out which entity or entities are involved in the claimed "*method of providing a communication interface*".

Claims 20-24 depend from claim 19, and, therefore, are objected on the same basis of objection.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 7-9, 13-15 and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent Application Pub. No. 2003/0093563 A1 by Young et al. (hereinafter "Young") in view of US Patent Application Pub. No. 2001/0012305 A1 by Kozdon et al. (hereinafter "Kozdon").

Regarding claims 1 and 7, Young teaches a communication management system for operation with a packet switched local area network, the communication management system **[Figs. 2-4 & 14; Multimedia Access Network Device MAND 1000]** comprising:

a PSTN interface for communicating over one or two telephone lines with a service provider central office **[Fig. 14; Phone Lines 2040 to PSTN 2050; par. 0100-0102]**;

a network interface for communicating over the packet switched local area network with at least one real time communication device **[Figs. 2-4 & 14; Ethernet LAN port 30; par. 0044, 0049]**;

a PSTN gateway **[Figs. 3 & 4; VoIP Application Layer Gateway ALG 500; par. 0057-0061]** comprising:

means for establishing a logical channel over the packet switched local area network with a real time communication device in response to receiving session signaling **[Fig. 14; An IP phone 950 or a phone 940 dials 911 through FXO 1010; par. 0100-0102]**, that identifies a local area network address associated with the real time communication device, on a logical port associated with the telephone line **[Fig. 14; An IP phone 950 or a phone 940 on an FXO port associated with a phone line 2040; par. 0100-0102]**;

means for controlling the PSTN interface to transition the telephone line to an off hook state in response to receiving session signaling on a logical port associated with

the telephone line **[Fig. 14; A PSTN Gateway interface is embedded in MAND 1000; par. 0100-0102]**; and

translation means for providing digital audio over the logical channel, the digital audio representing a dial tone received on the telephone line from the central office **[Fig. 14; The digital IP packet call is translated to an analog call by a PSTN Gateway interface, which is embedded in MAND 1000, to a PSTN/Central Office, and vice versa; par. 0100-0102]**.

Young does not expressly teach translating means for providing one of a plurality of dual tone multi frequency signal on the telephone line in response to receipt of data from the real time communication device corresponding to the one of a plurality of dual tone multi frequency signals.

Kozdon teaches a system comprising translating means for providing one of a plurality of dual tone multi frequency signal on the telephone line in response to receipt of data from the real time communication device corresponding to the one of a plurality of dual tone multi frequency signals. **[Figs. 3, 4, 5A & 5B; indicate to the receiving telephone that a DTMF signal is being transmitted; par. 0024-0026; 0028-003, 0033]**.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate the method of transmitting DTMF signal over a compressed network as disclosed by Kozdon into Young's multimedia access network device.

The motivation for combining the reference teachings would be to enable a user of analog or digital phones connected to Young's multimedia access network device

MAND to place a numeric code that representing the DTMF signal to one of analog lines connected to a PSTN for requesting an emergency 911 service.

Regarding claims 2, 3, 8, 9, 14, 15, 20 and 21, Young teaches each limitation set forth in its parent claim.

Young does not expressly teach the data from the real time communication device corresponding to the one of a plurality of dual tone multi frequency signals is compressed digital audio data or a message identifying the tone provided on the logical channel and representing at least one of an analog or digital audio representation of the tone generated at the real time communication device.

Kozdon teaches the data from the real time communication device corresponding to the one of a plurality of dual tone multi frequency signals is compressed digital audio data or a message identifying the tone provided on the logical channel **[Figs. 3 & 4, steps 152, 154 & 156; pocketsize, compress and transmit audio data and DTMF signals; par. 0024-0026; 0028-003, 0033]** and representing at least one of an analog or digital audio representation of the tone generated at the real time communication device **[Figs. 3, 4, 5A & 5B; par. 0024-0026; 0028-003, 0033]**.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate the method of transmitting DTMF signal over a compressed network as disclosed by Kozdon into Young's multimedia access network device.

The motivation for combining the reference teachings would be to enable a user of analog or digital phones connected to Young's multimedia access network device

MAND to place a numeric code that representing the DTMF signal to one of analog lines connected to a PSTN for requesting an emergency service.

Regarding claims 13 and 19, Young teaches a method of providing a communication interface between telephone lines and a real time communication device over a packet switched local area network **[Figs. 2-4 & 14; Multimedia Access Network Device MAND 1000]**, the method comprising;

receiving session signaling, that identifies a local area network address associated with the initiating real time communication device, over the local area network on a logical port associated with the telephone line **[Figs. 6 & 14; An IP phone 950 or a phone 940 dials 911 through FXO 1010 ports associated with analog phone lines 2040; par. 0061, 0100-0102]**;

establishing a logical channel with the real time communication device over the local area network in response to receiving session signaling; transitioning the telephone line to an off hook state **[Figs. 6 & 14; An IP phone 950 or a phone 940 dials 911 through FXO 1010 ports associated with analog phone lines 2040; par. 0061, 0100-0102]**; and

providing digital audio over the logical channel, the digital audio representing a dial tone received on the telephone line from the central office **[Fig. 14; The digital IP packet call from IP phone 950 or phones 940 is translated to an analog call by a PSTN Gateway interface, which is embedded in MAND 1000, to a PSTN/Central Office, and vice versa; par. 0100-0102]**.

Young does expressly teach providing one of a plurality of dual tone multi frequency signals on the telephone line in response to receipt of data from the real time communication device corresponding to the one of a plurality of dual tone multi frequency signals.

Kozdon teaches providing one of a plurality of dual tone multi frequency signals on the telephone line in response to receipt of data from the real time communication device corresponding to the one of a plurality of dual tone multi frequency signals. **[Figs. 3, 4, 5A & 5B; indicate to the receiving telephone that a DTMF signal is being transmitted; par. 0024-0026; 0028-003, 0033]**.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate the method of transmitting DTMF signal over a compressed network as disclosed by Kozdon into Young's multimedia access network device.

The motivation for combining the reference teachings would be to enable a user of analog or digital phones connected to Young's multimedia access network device MAND to place a numeric code that representing the DTMF signal to one of analog lines connected to a PSTN for requesting an emergency 911 service.

Allowable Subject Matter

3. Claims 4-6, 10-12, 16-18 and 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- US Patent No. 7,035,289 to Devine et al. disclose "Communications Switching Architecture"
- US Patent No. 6,665,293 to Thornton et al. disclose "Application For A Voice Over IP (VoIP) Telephony Gateway And Methods For Use Therein"
- US Patent No. 7,120,122 to Starr et al. disclose "System And Method For Diagnostic Supervision Of Internet Transmissions With Quality Of Service Control"

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Albert T. Chou whose telephone number is 571-272-6045. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Albert T. Chou
April 16, 2007 AC

CHI PHAM
SUPERVISORY PATENT EXAMINER 4/20/07